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PTO/SB/05 (03-01) Approved for use through 10/31/2002. OMB 0651-0032

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## UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No. 8021-89 (SS-16177-US)

First Inventor Dong-Seok NAM

Title Semiconductor Device Having Self-Aligned...

(Only for new nonprovisional applications under 37 CFR 1.53(b)) Express Mail Label No. EL922712617US **APPLICATION ELEMENTS** Assistant Commissioner for Patents ADDRESS TO: Box Patent Application See MPEP chapter 600 concerning utility patent application contents. Washington, DC 20231 Fee Transmittal Form (e.g., PTO/SB/17) 1. | X CD-ROM or CD-R in duplicate, large table or (Submit an original and a duplicate for fee processing) Computer Program (Appendix) Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) erred arrangement set forth below) Specification 3. X Computer Readable Form (CRF) - Descriptive title of the invention Specification Sequence Listing on: Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D i. CD-ROM or CD-R (2 copies); or - Reference to sequence listing, a table. i i. 🔲 paper or a computer program listing appendix - Background of the Invention Statements verifying identity of above copies Brief Summary of the Invention **ACCOMPANYING APPLICATION PARTS** Brief Description of the Drawings (if filed) - Detailed Description X Assignment Papers (cover sheet & document(s)) - Claim(s) 37 CFR 3.73(b) Statement Power of - Abstract of the Disclosure (when there is an assignee) Attorney 4. X 19 Drawing(s) (35 U.S.C. 113) [ Total Sheets English Translation Document (if applicable) Copies of IDS Information Disclosure 5. Oath or Declaration [ Total Pages Citations Statement (IDS)/PTO-1449 Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed) Preliminary Amendment Return Receipt Postcard (MPEP 503) (Should be specifically itemized) **DELETION OF INVENTOR(S)** Certified Copy of Priority Document(s) (if foreign priority is claimed) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR Nonpublication Request under 35 U.S.C. 122 1 63(d)(2) and 1.33(b). (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Application Data Sheet. See 37 CFR 1.76 17. X Other: Checks for \$794.00 \$ 40.00 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.: Group Art Unit. For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label Correspondence address below (Insert Customer No. or Attach bar code label here) F. Chau & Associates, LLP Name 1900 Hempstead Turnpike Suite 501 Address City East Meadow State New York Zip Code 11554 Country Telephone (516) 357-0091 Fax (516) 357-009: Frank Chau Name (Print/Type) Registration No. (Attorney/Agent) 34,136

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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| for FY 2002                                 |  |                                       |                                  |  | Filing Date                 |               | March 1, 2002        |                                 |  |                                |                |
| Patent fees are subject to annual revision. |  |                                       |                                  |  | First Named Inventor Dong-s |               |                      | Dong-seok I                     | VAM  |                                |                |
| Annlinent                                   |  |                                       | ·                                |  | Examiner Name               |               |                      |                                 |  |                                |                |
| Applicant                                   | ciaims sm  | all entity status. Se                 | ee 37 CFR 1.27                   |  | Group Art Unit              |               |                      |                                 |  |                                |                |
| TOTAL AMO                                   | DUNT OF I  | PAYMENT                               | (\$) 834.00                      |  |                             | <u> </u>      | Docke                | t No.                           | 8021-89 (\$9   | S_16177_I                      | 19)            |
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| Deposit Ac                                  | count:   |                                       |                                  | Large Entity Small Entity              |                             |               |                      |                                 |  |                                |                |
| Deposit<br>Account 50-0679                  |  |                                       | Fee<br>Cod                       | Fee Fee Fee Fee Description  Code (\$) |                             |               |                      | Fee Paid                        |  |                                |                |
| Number Deposit F. CHAU & ASSOCIATES, LLP    |  |                                       |                                  | 105                                    | 130                         | 205           | 65                   | Surchar                         | ge - late filing fee or                              | oath                           |                |
| Account Name                                | . CHAO   | ASSOCIATES                            | , LLP                            | 127                                    | 50                          | 227           | 25                   | Surchar                         | ge - late provisional                                | filing fee or                  |                |
| The Commission                              | ner is autho   | orized to: (check all                 |                                  | 139                                    | 130                         | 120           | 400                  | cover sh                        |  |                                |                |
| Charge fee(s)                               |  |                                       | any overpayments                 |  | 2,520                       | 139           | 130<br>2,520         |                                 | glish specification                                  |                                |                |
|   |  |                                       | ncy of this application          | 112                                    | 920*                        | l             | 920*                 |                                 | g a request for ex parting publication of S          | ation                          |                |
| othe above den                              |  | elow, except for the                  | filing fee                       |  | 040                         | '             | 020                  | Examin                          | er action  | irk phor to                    |                |
|   |  | ALCULATION                            |                                  | 113                                    | 1,840*                      | 113           | 1,840*               | Reques<br>Examin                | ting publication of S<br>er action                   | IR after                       |                |
| . BASIC FILI                                | ING FEE  |                                       |                                  | 115                                    | 110                         | 215           | 55                   | Extensi                         | on for reply within fi                               | rst month                      |                |
| Large Entity Si<br>Fee Fee F                |  | F B 1.0                               |                                  | 116                                    | 400                         | 216           | 200                  | Extension                       | on for reply within se                               | cond month                     |                |
|   | ee Fee<br>ode (\$)   | Fee Description                       | Fee Paid                         | 117                                    | 920                         | 217           | 460                  | Extension                       | on for reply within the                              | rd month                       |                |
| 101 740 2                                   | 201 370  | Utility filing fee                    | 740.00                           |  | 1,440                       | 218           | 720                  | Extension                       | on for reply within for                              | urth month                     |                |
| -   | 206 165  | Design filing fee                     |                                  | 128                                    | 1,960                       | İ             | 980                  | Extension                       | on for reply within fift                             | th month                       |                |
| 1   | 255  | Plant filing fee                      |                                  | 119                                    | 320                         | 219           | 160                  |                                 | of Appeal  |                                |                |
|   | 208 370  | Reissue filing fee                    |                                  | 120                                    | 320                         | 220           | 160                  |                                 | brief in support of ar                               | appeal                         |                |
| 114 100   2                                 | 214 80   | Provisional filing f                  | ee                               | 121                                    | 280<br>1,510                | 221           | 140<br>1,510         | _                               | for oral hearing                                     |                                |                |
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| . EXTRA CL                                  | AIM FEE  | S FOR UTILITY                         |                                  |  | 1,280                       | 241           | 640                  |                                 | to revive - unintentic                               |                                |                |
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| Total Claims                                |  |                                       | <u>54.00</u> = 54.00             | 143                                    | 460                         | 243           | 230                  | Design i                        |  |                                |                |
| Claims L                                    |  | ** = 0 × 84                           |                                  | 144                                    | 620                         | 244           | 310                  | Plant iss                       | ue fee   |                                |                |
| Multiple Depende                            | nt   | 28                                    | 0.00 = 0                         | 122                                    | 130                         | 122           | 130                  | Petitions                       | to the Commission                                    | er                             |                |
| arge Entity   S                             | imali Entity   |                                       |                                  | 123                                    | 50                          | 123           | 50                   | Processi                        | ng fee under 37 CF                                   | R 1.17(q)                      |                |
| Fee Fee                                     | Fee Fee<br>Code (\$)   | Fee Description                       | п                                | 126                                    | 180                         | 126           | 180                  | Submiss                         | ion of Information D                                 | sclosure Stm                   | t              |
| 103 18                                      | 203 9  | Claims in excess                      | of 20                            | 581                                    | 40                          | 581           | 40                   | Recording                       | ng each patent assig<br>(times number of pr          | nment per                      | 40.00          |
| 102 84<br>104 280                           | 202 42   | Independent clain                     |                                  | 146                                    | 740                         | 246           | 370                  | Filing a s                      | submission after fina<br>§ 1.129(a))                 | , ,                            |                |
|   | 204 140<br>209 42  | Multiple depender  ** Reissue indepe  | nt claim, if not paid            | 149                                    | 740                         | 249           | 370                  | For each                        | additional invention                                 | n to be                        |                |
|   |  | over original pa                      | tent                             |  |                             |               |                      | examine                         | d (37 CFR § 1.129(                                   | b))                            |                |
| 110 18                                      | 210 9  | ** Reissue claims<br>and over origina |                                  | 179                                    | 740                         | 279           | 370                  |                                 | for Continued Exam                                   |                                |                |
|   |  | ŭ                                     |                                  | 169                                    | 900                         | 169           | 900                  | Request<br>of a des             | t for expedited exam<br>ign application              | ination                        |                |
|   | SUE  | STOTAL (2)                            | (\$) 54.00                       | Other                                  | fee (sp                     | ecify)        |                      |                                 |  |                                |                |
| **or number pr                              | **or number previously paid, if greater; For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00 |                                       |                                  |  |                             |               |                      |                                 |  |                                |                |
| UBMITTED BY                                 |  |                                       |                                  |  |                             |               |                      |                                 |  |                                |                |
| ame (Print/Type)                            |  | ank Chau                              |                                  | F                                      | Registra                    | tion N        | o ^                  | 4.400                           |  | (If applicable)                |                |
| ,     | 1 110  | ann Onau                              |                                  |  |                             |               |                      | 4,136                           | Telephone  | 516-35                         | /_nnq1         |

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Signature

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Date

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Atty. Docket No. 8021-89 (SS-16177-US)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents Washington, D.C. 20231

## UTILITY APPLICATION FEE TRANSMITTAL

| Sir:  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| Transmitted he  | rewith for filing is the patent application of   |  |  |  |  |  |  |
| <pre>Inventor(s):</pre>   | Dae-Seok Nam, Ji-Soo KIM, Yun-Sook CHAE          |  |  |  |  |  |  |
| For:  | SEMICONDUCTOR DEVICE HAVING SELF-ALIGNED CONTACT |  |  |  |  |  |  |
|   | PADS AND METHOD FOR MANUFACTURING THE SAME       |  |  |  |  |  |  |
| Enclosed are:   |  |  |  |  |  |  |  |
| [X] <u>20</u>   | page(s) of specification                         |  |  |  |  |  |  |
| [X] <u>1</u>  | page(s) of Abstract                              |  |  |  |  |  |  |
| [X] <u>8</u>  | page(s) of claims                                |  |  |  |  |  |  |
| [X] <u>19</u>   | sheets of drawings [X] formal [] informal        |  |  |  |  |  |  |
| [X] <u>2</u>  | page(s) of Declaration and Power of Attorney     |  |  |  |  |  |  |
| [X] An Assignment of the invention to:  Samsung Electronics Co., Ltd. |  |  |  |  |  |  |  |

CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date <u>March 1, 2002</u> in an envelope as "Express Mail Post Office to Addressee" Mail Label Number <u>EL922712617US</u> addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

| (Туре  | or  | print   | name   | of   | person | mailing | paper |
|--------|-----|---------|--------|------|--------|---------|-------|
| (Signa | atu | re of r | person | n ma | ailing | paper)  |       |

| [ ]                              | This application claims the benefit under 35 U.S.C. §119(e) of U.S. Provisional Application(s) No(s): |  |                                |                  |                   |  |  |  |  |  |
|----------------------------------|---|--|--------------------------------|------------------|-------------------|--|--|--|--|--|
|                                  | APPLICATION N   | O(S).:                                       | FII                            | FILING DATE      |                   |  |  |  |  |  |
|                                  | /   |  |                                |                  |                   |  |  |  |  |  |
| [X] (                            | Certified copy  | of applicati                                 | ons                            |                  |                   |  |  |  |  |  |
| Count                            | ry  | Appln. No.                                   | <u>Fil</u>                     | Filed            |                   |  |  |  |  |  |
| <u>Korea</u>                     | ı   | 2001-48740                                   | 13                             | 13 August 2001   |                   |  |  |  |  |  |
| is claimed                       | which priorited  [X] is enclosed  [] will folled  The fees to be claims remain.  Preliminary A        | ed.<br>ow.<br>e charged are<br>ing as a resu | e to be based                  | on the n         |                   |  |  |  |  |  |
|                                  | CALCULATIO  | N OF UTILITY                                 | APPLICATION                    | FEE              |                   |  |  |  |  |  |
| For<br>Total                     | Number<br>Filed   | Number<br>Extra                              | Rate                           |                  | sic Fee<br>740.00 |  |  |  |  |  |
| Claims* Independen               | <u>23 -20 :</u><br>.t   | = 3  | x \$ 18.00                     | Ć,               | 54.00             |  |  |  |  |  |
| Claims Multiple Dependent Claims | _   | = 0<br>Add'l. Fee<br>Add'l. Fee              | x \$ 84.00<br>\$280.00<br>None | = 5              |                   |  |  |  |  |  |
| [] Appli                         |   |  |                                | TOTAL <u>\$</u>  | 794.00            |  |  |  |  |  |
| C.F.R                            | cant claims Sr<br>. § 1.27. Red<br>of total) paid   | duced fees un                                | tatus Under<br>der 37 C.F.R    | 37<br>. § 1.9(f) |                   |  |  |  |  |  |

\*Includes all independent and single dependent claims and all claims referred to in multiple claims. See 37 C.F.R. § 1.75(c).

- [X] A check in the amount of \$794.00 to cover the filing fee is attached.
- [] Charge fee to Deposit Account No. 50-0679. Order No 50-0679. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.
- [X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and 1.17, at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. 50-0679. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 50-0679 therefor. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

Date: 3/1/02

SIGNATURE OF ATTORNEY Frank Chau Reg. No. 34,136

F. CHAU & ASSOCIATES, LLP 1900 Hempstead Turnpike Suite 501 East Meadow, New York 11554 Tel. No. (516) 357-0091 Fax. (516) 357-0092

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